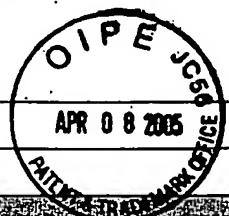


**INFORMATION DISCLOSURE
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Sheet 1 of 13

Application Number	10/628,909
Filing Date	July 29, 2003
First Named Inventor	BARAK, Lawrence
Group Art Unit	1646
Examiner Name	Unknown
Attorney Docket No: NRK.10010	

U.S. PATENT DOCUMENTS					
Examiner Initials	U.S. Patent Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication (MM-DD-YYYY)	Issue Date (MM-DD-YYYY)
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Examiner Signature	N and FR		Date Considered	4/12/07	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Sheet 2 of 13	Attorney Docket No: NRK.10010

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Examiner Signature:	<i>V. Ivan Schut R.</i>		Date Considered	<i>4/1/2007</i>	

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Application Number	10/628,909
Filing Date	July 29, 2003
First Named Inventor	BARAK, Lawrence
Group Art Unit	1646
Examiner Name	Unknown

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Attorney Docket No: NRK.10010

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Examiner Initials	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication (MM-DD-YYYY)
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
NIB	Goodman, O., et al., "β-Arrestin acts as a clathrin adaptor in endocytosis of the β ₂ -Adrenergic receptor", <i>Nature</i> , 383(3):447-450, 1996.		
	Heim, R., et al., "Wavelength mutations and posttranslational autoxidation of green fluorescent protein", <i>Proc. Natl. Acad. Sci., USA, [Biochemistry]</i> 91(26): 12501-12504, 1994.		
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Examiner Signature

NIB

Date Considered

5/12/03

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Application Number	10/628,909												
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Group Art Unit	1646												
Examiner Name	Unknown												
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	Number	Kind Code (if known)		
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Examiner Initials	Foreign Patent Document		Country	Date of Publication (MM-DD-YYYY)	Translation Yes <input type="checkbox"/> No <input type="checkbox"/>
	Number	Kind Code (if known)			
NSB	WO97/11091		PCT	03/27/1997	abstr
	WO96/27675		PCT	09/12/1996	
	WO96/27027		PCT	09/06/1996	
	WO96/23898		PCT	08/08/1996	
	WO96/23810		PCT	08/08/1996	
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**INFORMATION DISCLOSURE
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Application Number	10/628,909
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Group Art Unit	1646
Examiner Name	Unknown

Sheet

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Attorney Docket No: NRK.10010

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Examiner Initials	Foreign Patent Document		Country	Date of Publication (MM-DD-YYYY)	Translation Yes No
	Number	Kind Code (if known)			
NSB	WO00/12704	A2	PCT	03-09-2000	x
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	WO98/55635	A2	PCT	12-10-1998	x
	WO98/44350	A1	PCT	10-08-1998	x
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✓	WO94/16684	A1	PCT	08-04-1994	x
	WO94/28764	A1	PCT	11-24-1994	x
	WO93/24510	A1	PCT	12-09-1993	x
	WO88/03168	A1	PCT	05-05-1988	x

NON-PATENT LITERATURE DOCUMENTS					
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
NSB	ATLAS, D., et al., <i>Probing of β-adrenergic receptors by novel fluorescent β-adrenergic blockers</i> , <i>Proceedings of the National Academy of Sciences</i> , Vol. 74, No. 12, December 1977, pp. 5290-5294, Proc. Natl Acad. Sci, USA.				
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Examiner Signature	N. and SR	Date Considered	4/21/07		

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		Application Number	10/628,909
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		First Named Inventor	BARAK, Lawrence
		Group Art Unit	1646
		Examiner Name	Unknown
Sheet 6 of 13		Attorney Docket No: NRK.10010	

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<i>Ferguson, et al., Molecular Mechanisms of G Protein-Coupled Receptor Desensitization and Resensitization, Life Sciences, 62:17/18 1561-1565 (1998).</i>	
EXAMINER	<i>Nirael Sh</i>
	DATE CONSIDERED <i>6/12/07</i>

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Sheet <u>7 of 13</u>		Attorney Docket No: NRK.10010	

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Examiner Signature	<u>Lawrence Barak</u>	Date Considered	4/12/03

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		Application Number 10/628,909
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		First Named Inventor BARAK, Lawrence
		Group Art Unit 1646
		Examiner Name Unknown
Sheet 8 of 13		Attorney Docket No: NRK.10010

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Group Art Unit	1646
Examiner Name	Unknown

Sheet 9 of 13

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Examiner Signature	N. Barak SR	Date Considered	1/2/01

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N/BS	<p>VAN SOLINGE, W.W., et al., <i>Radioimmunoassay for Sequence 38-54 of Human Progastrin: Increased Diagnostic Specificity of Gastrin-Cell Disease</i>, <i>Clinica Chimica Acta</i>, Vol. 192, 1990, pp. 35-46, Elsevier Science Publishers B.V.</p> <p>WALKER, J.K.L., et al., <i>Properties of Secretin Receptor Internalization Differ from Those of the β_2-Adrenergic Receptor</i>, <i>Journal of Biological Chemistry</i>, Vol. 274, No. 44, October 29, 1999, pp. 31515-31523, The American Society for Biochemistry and Molecular Biology, Inc., USA.</p> <p>WANK, S.A., <i>Cholecystokinin Receptors</i>, <i>Am. J. Physiol</i>, Vol. 269, 1995, pp. G628-646</p> <p>WANK, S.A., et al., <i>Brain and Gastrointestinal Cholecystokinin Receptor Family: Structure and Functional Expression</i>, <i>Proceedings of the National Academy of Sciences</i>, Vol. 89, September 1992, pp. 8691-8695, Proc. Natl. Acad. Sci. USA.</p> <p>WARD, W.W., et al., <i>Spectrophotometric Identity of the Energy Transfer Chromophores in Renilla and Aequorea Green-Fluorescent Proteins</i>, <i>Photochemistry and Photobiology</i>, 1980, Vol. 31, pp. 611-615, Pergamon Press, Ltd., Great Britain.</p> <p>WHISTLER, Jennifer, L., et al., <i>Morphine-activated opioid receptors elude desensitization by β-arrestin</i>, <i>Proceedings of the National Academy of Sciences of the United States</i>, Vol. 95, No. 17, August 18, 1998, pp. 9914-9919</p> <p>WOLFE, M.M., et al., <i>Zollinger-Ellison Syndrome Associated with Persistently Normal Fasting Serum Gastrin Concentrations</i>, <i>Annals of Internal Medicine</i>, Vol. 103, 1985, pp. 215-217, USA.</p> <p>WOLFE, M.M., et al., <i>Zollinger-Ellison Syndrome, Current Concepts in Diagnosis and Management</i>, <i>New England Journal of Medicine</i>, Vol. 317, November 5, 1987, pp. 1200-1209, USA.</p> <p>YU, Yunkai, et al., <i>μ Opiod Receptor Phosphorylation, Desensitization, and Ligand Efficacy</i>, <i>Journal of Biological Chemistry</i>, Vol. 272, No. 46, pp. 28869-28874 (1997)</p> <p>ZHANG, J., et al., <i>Cellular Trafficking of G Protein-coupled Receptor/β-Arrestin Endocytic Complexes</i>, <i>Journal of Biological Chemistry</i>, Vol 274, No. 16, April 16, 1999, pp. 10999-11006, The American Society for Biochemistry and Molecular Biology, Inc., USA.</p> <p>ZHANG, J., et al., <i>Role for G protein-coupled receptor kinase in agonist-specific regulation of μ-opioid receptor responsiveness</i>, <i>Proceedings of the National Academy of Sciences, USA</i>, Vol. 95, pp. 7157-7162 (June 1998)</p> <p>ZHANG, J., et al., <i>A Central Role for β-Arrestins and Clathrin-coated Vesicle-mediated Endocytosis in β_2-Adrenergic Receptor Resensitization</i>, <i>Journal of Biological Chemistry</i>, Vol. 272, No. 43, October 24, 1997, pp. 27005-27014, The American Society for Biochemistry and Molecular Biology, Inc., USA.</p> <p>ZHANG, J., et al., <i>Dynamin and β-Arrestin Reveal Distinct Mechanisms for G Protein-coupled Receptor Internalization</i>, <i>Journal of Biological Chemistry</i>, Vol. 271, No. 31, pp. 18302-18305, 1996, USA.</p> <p>ZIMMER, T., et al., <i>Brief Report: A Duodenal Gastrinoma in a Patient with Diarrhea and Normal Serum Gastrin Concentrations</i>, <i>New England Journal of Medicine</i>, Vol. 333, September 7, 1995, pp. 634-636, USA.</p>		
Examiner Signature	<i>Lawrence Barak</i>	Date Considered	6/12/03

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Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)
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	6,100,042		Fowlkes, et al.	08-08-2000
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✓	08/041,431		Fowlkes, et al., filed 3/31/93, abandoned, listed in child application 09/201,396 and patents 6,255,059 and 6,100,042	

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Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)

NONPATENT LITERATURE DOCUMENTS				
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			

Examiner Signature	<i>Lawrence</i>	Date Considered	<i>7/1/2003</i>
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Substitute for form 1449A/PTO
**INFORMATION DISCLOSURE
 STATEMENT BY APPLICANT**
(Use as many sheets as necessary)

Complete if Known

Application Number	10/628,909
Filing Date	July 29, 2003
First Named Inventor	BARAK, Lawrence
Group Art Unit	1646
Examiner Name	Unknown

Sheet 13 of 13

Attorney Docket No: NRK.10010

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
PLB	5,284,746 ✓	2/8/94	Sledziewski, et al.			
	5,468,854 ✓	11/21/95	McCabe, et al.			
	5,482,835 ✓	1/9/96	King, et al.			
	5,491,084 ✓	2/13/96	Chalfie, et al.			
	5,532,157 ✓	7/2/96	Fink			
	5,576,436 ✓	11/19/96	McCabe, et al.			
	5,366,889 ✓	11/19/94	MacDonald, et al.			
↓	5,989,835 ✓	11/23/99	Dunlay, et al.			
EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation
						Yes No
PLB	WO98/12310		PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

NSB	Barak, L., et al., <i>Internal Trafficking and Surface Mobility of a Functionally Intact β_2-Adrenergic Receptor-Green Fluorescent Protein Conjugate</i> , <i>Mole Pharm.</i> 51:177-184 (1997).
	Barak, L., et al., <i>The Conserved Seven-Transmembrane Sequence NP(X)_{2,3}Y of the G-Protein-Coupled Receptor Superfamily Regulates Multiple Properties of the β_2-Adrenergic Receptor</i> , <i>Biochem.</i> 34:15407-15414 (1995).
	Barak, L., et al., <i>A Highly Conserved Tyrosine Residue in G Protein-coupled Receptors is Required for Agonist-mediated β_2-Adrenergic Receptor</i> , <i>J. of Biological Chem.</i> 269, No. 42:2790-2795 (1994).
	Ferguson, S., et al., <i>Role of Phosphorylation in Agonist-promoted β_2-Adrenergic Receptor Sequestration</i> , <i>The J. of Biological Chem.</i> 270, No. 42:24782-24789 (1995).
	Ferguson, S., et al., <i>Role of β-Arrestin in Mediating Agonist-Promoted G Protein-Coupled Receptor Internalization</i> , <i>Science</i> 271:363-366 (1996).
	Lohse, M., et al., <i>β-Arrestin: A Protein That Regulates β-Adrenergic Receptor Function</i> , <i>Science</i> 248:1547-1550 (1990).
	Ménard, L., et al., <i>Members of the G Protein-Coupled Receptor Kinase Family That Phosphorylate the β-Adrenergic Receptor Facilitate Sequestration</i> , <i>Biochem.</i> 35:4155-4160 (1996).
↓	Ormö, M., et al., <i>Crystal Structure of the Aequorea victoria Green Fluorescent Proteins</i> , <i>Science</i> 273:1392-1395 (1996)

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Filed 7/29/03

INFORMATION & SCLOSURE
CITATION

PTO-1449

ATTORNEY'S DKT NO.
033072-010APPLICATION NO.
09/631,468APPLICANT
Barak et al.

DEC 20 2000

FILING DATE
August 3, 2000GROUP
1646 & TRADEMARK OFFICE

U.S. PATENT DOCUMENTS						
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
Mr	5,352,660	10/4/94	Pawson, A.J.	514	12	
	5,462,856	10/31/95	Lerner et al.	435	7.21	
	5,491,084	10/4/94	Chalfie et al.	514	12	
	5,541,309	7/30/96	Prasher, D.	536	23.2	DEC 26 2000
	5,627,039	5/6/97	Pereira-Smith et al.	435	7.23	
	5,700,673	12/23/97	McElroy et al.	435	189	TECH CENTER 1600/2800
	5,744,313	4/28/98	Williams et al.	435	7.1	
	5,804,387	9/8/98	Cormack et al.	435	6	
	5,856,111	1/5/99	Ullrich et al.	435	7.21	

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EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation
						Yes
						No

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)						
Mr	Goodman, O.B., et al., β -Arrestin acts as a clathrin adaptor in endocytosis of the β_2 -adrenergic receptor," <i>Nature</i> , 338:447-450 (1996).					
	McConalogue, K., et al., "Cellular and Subcellular localization of G-Protein Receptor Kinases, Arrestins and G-Proteins: Implications for Receptor Regulation," <i>Gastroenterology</i> , 110(4) Supplement: A1098 AGA Abstracts. 1996					
↓	Zuckerman, R., et al., "Sites of arrestin action during the quench phenomenon in retinal rods," <i>FEBS Let</i> , 238(2):379-84 (1988).					

EXAMINER	DATE CONSIDERED
Nvr/rb	4/22/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Filed 7/29/03

Attachment 09/631 468 SHEET 2 OF 2

INFORMATION DISCLOSURE CITATION		ATTORNEY'S DKT No. 033072-010	APPLICATION NO. 09/631,468
APPLICANT Barak et al.		DEC 20 2000 U.S. PATENT & TRADEMARK OFFICE JC100	
FILING DATE August 3, 2000		GROUP 1646	

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

EXAMINER'S INITIALS	PATENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						Yes	No

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER *W. C. S.* DATE CONSIDERED *1/26/68*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Final 7/19/03

Sheet 1 of 1

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No: 5405-140	Serial No.: 08/369,568 <i>10/628939</i>
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)		Applicant: Barak et al.	
		Filing Date: 5 June 1997	Group:1646

U. S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No

215

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>NRB</i>	1	Barak et al., <i>Abstract #2484, Molecular Biology of the Cell</i> 7:427a (December 1996).

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DATE CONSIDERED

4/12/07

Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No: 5405-140	Serial No.: 08/869,568 10/621709
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)		Applicant: Barak et al.	
		Filing Date: 5 June 1997 Group:1646	

U. S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Subclass	Translation Yes No
<i>PNB</i>	1	WO 98/12310		PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
PNB	2	Yokoe and Meyer, <i>Spatial Dynamics of GFP-tagged proteins investigated by local fluorescence enhancement</i> , <i>Nature Biotechnology</i> 14:1252 (October 1996).					

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N. and Sh. DATE CONSIDERED *4/12/03*
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Filed 7/12/03

PTO 892 DEA/FCE 1994 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			SERIAL NUMBER <i>10/628909</i> 08/869,568	Art Unit 1646	Attachment to Paper Number 5		
NOTICE OF REFERENCES CITED			APPLICANT(S) :BARAK et al				
U.S. PATENT DOCUMENTS							
*		DOCUMENT NUMBER	DATE	NAME(S)	CLASS	SUBCLASS	FILING DATE
<i>NSA</i>	A	US 5,366,889	Nov. 22, 1994	MacDonald et al	435	252.3	Nov. 30, 1992
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*		DOCUMENT NUMBER	DATE	COUNTRY	NAME(S)	CLASS	SUBCLASS
OTHER REFERENCES AUTHOR, TITLE, PERTINENT PAGES, ETC						Public Availability Date	
<i>NSA</i>	B	Cubitt, A. B. et al., Understanding, Improving and Using Green Fluorescent Proteins. Trends in Biochemical Sciences, pages 448-455				1995	
<i>NSA</i>	C	Harris, E. L. V. et al, Protein Purification Methods, Oxford University Press, New York. Pages 12-18				1990	
EXAMINER Nirmal S. Basi <i>Nirmal S. Basi</i>			DATE <i>5/26/98</i>	• A COPY OF THIS REFERENCE IS NOT BEING FURNISHED WITH THIS OFFICE ACTION. (SEE MPEP SECTION 707.05(a). PAGE 1 OF 1			

9/12/07

Form PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

LIST OF DOCUMENTS CITED BY APPLICANT

(Use several sheets if necessary)

Attorney Docket Number
5405-140CT1Serial No.
To be assigned

Applicants: Barak et al.

Filing Date: Concurrently herewith

Ref 7/29/94
JC857 U.S. PTO
09/631468
03/03/94
Temp:
1646

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Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
W/	1	5,284,746	2/8/94	Sledziewski et al	435	6	2/8/90
W/M	2	5,468,854	11/21/95	McCabe et al	540	498	7/22/93
	3	5,482,835	1/9/96	King et al	435	6	6/3/93
	4	5,491,084	2/13/96	Chalfie et al	435	189	9/10/93
	5	5,532,157	7/2/96	Fink	435	240.2	1/3/94
	6	5,576,436	11/19/96	McCabe et al	546	156	3/2/94
	7	5,366,889	11/22/94	MacDonald et al	435	252.3	10/30/92
	8	5,989,835	11/23/99	Dunlay et al.	435	7.2	2/27/97

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
W	9	WO94/16684	8/4/94	PCT			
L	10	WO98/12310		PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

N/A	11	L.S. Barak et al.; <i>Internal Trafficking and Surface Mobility of a Functionally Intact β_2-Adrenergic Receptor-Green Fluorescent Protein Conjugate</i> , <i>Mole. Pharm.</i> 51:177-184 (1997)
	12	L.S. Barak et al.; <i>The Conserved Seven-Transmembrane Sequence NP(X)2,3Y of the G-Protein-Coupled Receptor Supersfamily Regulates Multiple Properties of the β_2-Adrenergic Receptor</i> , <i>Biochem.</i> 34:15407-15414 (1995)
	13	L.S. Barak et al.; <i>A Highly Conserved Tyrosine Residue in G Protein-coupled Receptors is Required for Agonist-mediated β_2-Adrenergic Receptor</i> , <i>J. of Biological Chem.</i> 269, No. 4:2790-2795 (1994)
	14	S.S.G. Ferguson et al.; <i>Role of Phosphorylation in Agonist-promoted β_2-Adrenergic Receptor Sequestration</i> , <i>The J. of Biological Chem.</i> 270, No. 42:24782-24789 (1995)
	15	S.S.G. Ferguson et al.; <i>Role of β-Arrestin in Mediating Agonist-Promoted G Protein-Coupled Receptor Internalization</i> , <i>Science</i> 271:363-366 (1996)
	16	S.S.G. Ferguson et al. <i>G-protein-coupled receptor regulation: role of G-protein coupled receptor kinases and arrestins</i> , <i>Can. J. Physiol. Pharmacol.</i> 74:1095-1110 (Oct. 1996)
	17	M.J. Lohse et al.; <i>β-Arrestin: A Protein That Regulates β-Adrenergic Receptor Function</i> , <i>Science</i> 248:1547-1550 (1990)

Filed 7/24/03

Sheet 2 of 2

USPTO-1449 U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket Number
5405-140CT1

Serial No.
To be assigned

LIST OF DOCUMENTS CITED BY APPLICANT

(Use several sheets if necessary)

Applicants: Barak et al.

Filing Date: Concurrently herewith

Group:
1646

new	18	L. Ménard et al.; <i>Members of the G Protein-Coupled Receptor Kinase Family That Phosphorylate the β-Adrenergic Receptor Facilitate Sequestration</i> , <u>Biochem</u> 35:4155-4160 (1996)
	19	M. Ormö et al.; <i>Crystal Structure of the Aequorea victoria Green Fluorescent Protein</i> , <u>Science</u> 273: 1392-1295 (1996)
	20	Cubitt, A.B. et al.; <i>Understanding, Improving and Using Green Fluorescent Proteins</i> , <u>Trends in Biochemical Sciences</u> , 448-455 (1995)
	21	Harris, E.L.V. et al.; <i>Protein Purification Methods</i> , Oxford University Press, New York, Pages 12-18 (1990)
	22	Yokoe and Meyer, <i>Spatial Dynamics of GFP-tagged proteins investigated by local fluorescence enhancement</i> , <u>Nature Biotechnology</u> , 14:1252 (October 1996)
	23	Barak et al.; <i>Abstract #2484</i> , <u>Molecular Biology of the Cell</u> , 7:427a (December 1996)
	24	Attramadal et al.; <i>β-Arrestin2, a Novel Member of the Arrestin/β-Arrestin Gene Family*</i> , <u>The Journal of Biological Chemistry</u> , 267:25 17882-17890 (1992).
	25	Barak et al.; <i>A β-Arrestin/Green Fluorescent Protein Biosensor for Detecting G Protein-coupled Receptor Activation*</i> , <u>The Journal of Biological Chemistry</u> , 272:44 27497-27500 (1997).
	26	Ferguson et al.; <i>Molecular Mechanisms of G Protein-Coupled Receptor Desensitization and Resensitization</i> , <u>Life Sciences</u> , 62:17/18 1561-1565 (1998).

Prel 7/21/98

Sheet 1

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office		Attorney Docket Number 5405-140	Serial No. To be Assigned
LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)		Applicants: Lawrence S. Barak, Marc G. Caron, Stephen S. Gergusson, Jie Chang	
		Filing Date: Concurrently Herewith	Group To be Assigned

U. S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
NSB	1	5,284,746	2/8/94	Sledziewski et al.	435	6	
	2	5,468,854	11/21/95	McCabe et al.	540	498	
	3	5,482,835	1/9/96	King et al.	435	6	
	4	5,491,084	2/13/96	Chalfie et al.	435	189	
	5	5,532,157	7/2/96	Fink	435	240.2	
	6	5,576,436	11/19/96	McCabe et al.	546	156	

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No
NSB	7	WO94/16684	8/4/94	PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

NSB	8	L. S. Barak et al.; <i>Internal Trafficking and Surface Mobility of a Functionally Intact β_2-Adrenergic Receptor-Green Fluorescent Protein Conjugate</i> , <i>Mole. Pharm.</i> 51:177-184 (1997).
	9	L. S. Barak et al.; <i>The Conserved Seven-Transmembrane Sequence NP(X)_{2,3}Y of the G-Protein-Coupled Receptor Superfamily Regulates Multiple Properties of the β_2-Adrenergic Receptor</i> , <i>Biochem.</i> 34:15407-15414 (1995).
	10	L. S. Barak et al.; <i>A Highly Conserved Tyrosine Residue in G Protein-coupled Receptors is Required for Agonist-mediated β_2-Adrenergic Receptor</i> , <i>J. of Biological Chem.</i> 269, No. 4:2790-2795 (1994).
	11	S. S. G. Ferguson et al.; <i>Role of Phosphorylation in Agonist-promoted β_2-Adrenergic Receptor Sequestration</i> , <i>The J. of Biological Chem.</i> 270, No. 42:24782-24789 (1995).
	12	S. S. G. Ferguson et al.; <i>Role of β-Arrestin in Mediating Agonist-Promoted G Protein-Coupled Receptor Internalization</i> , <i>Science</i> 271:363-366 (1996).
	13	S. S. G. Ferguson et al.; <i>G-protein-coupled receptor regulation: role of G-protein-coupled receptor kinases and arrestins</i> , <i>Can. J. Physiol. Pharmacol.</i> 74:1095-1110 (1996).
	14	M. J. Lohse et al.; <i>β-Arrestin: A Protein That Regulates β-Adrenergic Receptor Function</i> , <i>Science</i> 248:1547-1550 (1990).
	15	L. Ménard et al.; <i>Members of the G Protein-Coupled Receptor Kinase Family That Phosphorylate the β_2-Adrenergic Receptor Facilitate Sequestration</i> , <i>Biochem.</i> 35:4155-4160 (1996).
✓	16	M. Ormö et al.; <i>Crystal Structure of the Aequorea victoria Green Fluorescent Protein</i> , <i>Science</i> 273:1392-1395 (1996).

FEB 7/21/93

Sheet 1 of 1

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark OfficeAttorney Docket Number
5405-140CTSerial No.
To be assigned

LIST OF DOCUMENTS CITED BY APPLICANT

(Use several sheets if necessary)

Applicants: Barak et al.

10549 U.S. 233530
10549 U.S. 233530

Filing Date: Concurrently herewith

Group 164
To be assigned

U. S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
NJB	1	5,284,746	2/8/94	Sledziewski et al	435	6	2/8/94
	2	5,468,854	11/21/95	McCabe et al	540	498	7/22/93
	3	5,482,835	1/9/96	King et al	435	6	6/3/93
	4	5,491,084	2/13/96	Chalfie et al	435	189	9/10/93
	5	5,532,157	7/2/96	Fink	435	240.2	1/3/94
	6	5,576,436	11/19/96	McCabe et al	546	156	3/2/94
	7	5,366,889	11/22/94	MacDonald et al	435	252.3	10/30/92

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		Document Number	Date	Country	Class	Subclass	Translation Yes No
NJA	8	WO94/16684	8/4/94	PCT	—	—	—
↓	9	WO98/12310		PCT	—	—	—

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NJA	10	L.S. Barak et al.; <i>Internal Trafficking and Surface Mobility of a Functionally Intact β_2-Adrenergic Receptor-Green Fluorescent Protein Conjugate</i> , <i>Mol. Pharm.</i> 51:177-184 (1997)
	11	L.S. Barak et al.; <i>The Conserved Seven-Transmembrane Sequence NP(X)_{2,3}Y of the G-Protein-Coupled Receptor Superfamily Regulates Multiple Properties of the β_2-Adrenergic Receptor</i> , <i>Biochem.</i> 34:15407-15414 (1995)
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	13	S.S.G. Ferguson et al.; <i>Role of Phosphorylation in Agonist-promoted β_1-Adrenergic Receptor Sequestration</i> , <i>The J. of Biological Chem.</i> 270, No. 42:24782-24789 (1995)
	14	S.S.G. Ferguson et al.; <i>Role of β-Arrestin in Mediating Agonist-Promoted G Protein-Coupled Receptor Internalization</i> , <i>Science</i> 271:363-366 (1996)
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↓	16	M.J. Lohse et al.; <i>β-Arrestin: A Protein That Regulates β-Adrenergic Receptor Function</i> , <i>Science</i> 248:1547-1550 (1990)

27.1.1.1 S. R. .

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Filed 7/1/99

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Sheet 1 of 1

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office

LIST OF DOCUMENTS CITED BY APPLICANT

(Use several sheets if necessary)

Attorney Docket Number

5409-140CF



Serial No.
09/233,531

Applicants:

Barak et al.

Filing Date
20 January 1999

Group
1643

U. S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriated
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes No
	BA						
	BB						
	BC						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

MS	CA	Attramadal et al.; <i>β-Arrestin2, a Novel Member of the Arrestin/β-Arrestin Gene Family*</i> , The Journal of Biological Chemistry 267:25 17882-17890 (1992).
↓	CB	Barak et al.; <i>A β-Arrestin/Green Fluorescent Protein Biosensor for Detecting G Protein-coupled Receptor Activation*</i> , The Journal of Biological Chemistry 272:44 27497-27500 (1997).
↓	CC	Ferguson et al.; <i>Molecular Mechanisms of G Protein-Coupled Receptor Desensitization and Re-sensitization</i> , Life Sciences 62:17/18 1561-1565 (1998).

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Sheet 2 of 2

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Patent and Trademark Office

Attorney Docket Number
5405-140CT

Serial No.
To be assign

LIST OF DOCUMENTS CITED BY APPLICANT

(Use several sheets if necessary)

Applicants: Barak et al.

Filing Date: Concurrently herewith

1646
Group
To be assign

NSR	17	L. Ménard et al.; <i>Members of the G Protein-Coupled Receptor Kinase Family That Phosphorylate the Adrenergic Receptor Facilitate Sequestration</i> , <i>Biochem</i> , 35:4155-4160 (1996)
	18	M. Ormø et al.; <i>Crystal Structure of the Aequorea victoria Green Fluorescent Protein</i> , <i>Science</i> 273: 139 1295 (1996)
	19	Cubitt, A.B. et al.; <i>Understanding, Improving and Using Green Fluorescent Proteins</i> , <i>Trends in Biochemical Sciences</i> , 448-455 (1995)
	20	Harris, E.L.V. et al.; <i>Protein Purification Methods</i> , Oxford University Press, New York, Pages 12-18 (1990)
	21	Yokoe and Meyer, <i>Spatial Dynamics of GFP-tagged proteins investigated by local fluorescence enhancement</i> , <i>Nature Biotechnology</i> 14:1252 (October 1996)
✓	22	Barak et al.; <i>Abstract #2484, Molecular Biology of the Cell</i> , 7:427a (December 1996)

Arindal S. Barak

3/23/00

Feb 7/2003

PTO 892 DEA/FCE 1994 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE			SERIAL NUMBER <i>10/628904</i> 09/233,530		Art Unit 1646	Attachment to Paper Number 9	
NOTICE OF REFERENCES CITED			APPLICANT(S) :BARAK et al				
U.S. PATENT DOCUMENTS							
*		DOCUMENT NUMBER	DATE	NAME(S)	CLASS	SUBCLASS	FILING DATE
✓	A	5,989,835	11/23/99	Dunlay et al	435	7.2	2/27/97
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*		DOCUMENT NUMBER	DATE	COUNTRY	NAME(S)	CLASS	SUBCLASS
		OTHER REFERENCES AUTHOR, TITLE, PERTINENT PAGES, ETC					Public Availability Date
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4/12/07